06922850 BIG BUFFALO CREEK AT BIG BUFFALO WILDLIFE AREA

(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 38°20'06", long 93°05'05", SE 1/4 NW 1/4 sec.12, T.41 N., R.19 W., Morgan County, Hydrologic Unit 10290109. Sampling site is reached by taking Highway FF to the end, turn right onto dirt road and travel about 2 mi.

DRAINAGE AREA.--24.5 mi^2.

PERIOD OF RECORD.--November 1993 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (mg/L) (00340)	COLI-FORM, FECAL, 0.7 µm-MF (COLS./ 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 mL) (31673)	ALKA-LINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$) (00410)
NOV 1996											
26...	1230	11	7.5	329	7.99	9.5	77	--	K1	K12	179
JAN 1997											
21...	1400	5.5	5.5	616	7.66	9.7	78	<10	K1	K8	203
MAR											
18...	1130	12	8.5	303	8.03	10.5	88	--	K1	K1	152
APR											
03...	1130	11	14.0	331	7.89	8.4	80	--	1	4	163
JUN											
13...	1400	124	18.0	211	7.76	8.2	85	21	K1400	K2200	97
AUG											
18...	1350	6.2	23.0	426	7.83	8.1	93	--	12	41	217

DATE	BICAR-BONATE WATER WH IT FIELD (mg/L as HCO_3) (00450)	CAR-BONATE WATER WH IT FIELD mg/L as CO_3) (00447)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)
NOV 1996										
26...	219	0	0.070	<0.010	0.040	0.24	<0.020	<0.010	--	--
JAN 1997										
21...	247	0	0.110	<0.010	<0.010	<0.20	0.020	<0.010	210	43
MAR										
18...	184	0	0.130	<0.010	<0.010	<0.20	<0.020	<0.010	--	--
APR										
03...	200	0	0.080	<0.010	0.010	<0.20	0.020	<0.010	--	--
JUN										
13...	120	0	0.060	<0.010	0.050	0.66	0.020	0.020	110	23
AUG										
18...	267	0	0.130	<0.010	0.020	<0.20	<0.020	0.010	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
JAN 1997										
21...	26	2.6	0.90	8.8	6.4	<0.10	218	<1	20	<3.0
JUN										
13...	13	1.6	2.2	4.8	32	<0.10	154	11	290	110

DATE	CADMIUM TOTAL RECOV-ERABLE (µg/L as Cd) (01027)	CADMIUM DIS-SOLVED (µg/L as Cd) (01025)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, TOTAL RECOV-ERABLE (µg/L as Pb) (01051)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)
JAN 1997										
21...	<1	<1.0	<1.0	4.0	<1	<1.0	1.9	<0.10	1	<1.0
JUN										
13...	<1	<1.0	1.3	150	<1	<1.0	5.9	<0.10	5	3.8

K--Results based on colony count outside the acceptable range (non-ideal colony count).